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## AN ENERGY STAR BUILDINGS<sup>SM</sup> AND GREEN LIGHTS<sup>®</sup> CASE STUDY FOR University of Missouri at Columbia

### Project Director

Mike O'Brien

### Partner Since

1994

### Total Committed Square Footage

2.82 million

### Location

Columbia, MO

*"We have been very pleased with the results of the ENERGY STAR Buildings<sup>SM</sup> strategy. Implementing the first four stages of ENERGY STAR Buildings allowed us to downsize the chiller more than 50 percent. This reduction in chiller size saved the university more than \$150,000."*



– Mike O'Brien

The University of Missouri joined the Green Lights partnership in 1994 and the ENERGY STAR Buildings<sup>SM</sup> Partnership in 1995. In only three years, the University completed its Green Lights upgrades, installing energy-efficient electronic ballasts and lights in over 2 million square feet of its facilities. For its outstanding efforts in lighting upgrades, the University was named the 1995 Green Lights<sup>®</sup> University Partner of the Year.

In the ENERGY STAR Buildings Partnership, the University surveyed its buildings to identify opportunities for energy savings. Building-wide energy-efficiency upgrades included installing occupancy sensors, new chillers, and a direct lighting control systems that is programmed to minimize energy use while allowing variable user schedules. The University's building upgrades were so successful, the EPA recognized the University with the first ENERGY STAR Buildings Partner of the Year Award in 1997.

			Progress to Date
<b>Project Costs</b>	Total Expenditures		\$1,680,866
	Dollars Per Square Foot		\$0.60
	Total Square Footage Upgraded		2,820,420
	Percent Upgraded		xx%
<b>Cost Savings</b>	Annual Dollar Savings		\$515,235
	Dollar Savings Per Square Foot		\$0.17
	Internal Rate of Return (IRR)		38%
<b>Energy Savings</b>	Annual kWh Savings		7,532,175
<b>Pollution Prevention</b>	Annual Carbon Dioxide (lbs.)*		14,299,064
	Equivalent Cars off the Road		1,430
	Equivalent Acres of Trees Planted		xxxx





The University of Missouri has won EPA's recognition as a result of their upgrade success as well as their superior communications efforts that stress the importance of energy efficiency. Through newsletters, websites, and advertisements, the University educates its students and faculty, as well as the Columbia community, about the process and results of the school's energy-efficiency upgrades. The University's communication tools include an annual Energy Extravaganza Fair that promotes energy-efficient technologies and the ENERGY STAR Buildings Partnership; notecards featuring energy-efficiency messages that are placed next to light switches as part of the "Lights Out" campaign; and class lectures that teach students about ENERGY STAR Buildings and show them that environmental responsibility makes good business sense.